

What is claimed is:

1. A screen comprising:

a first lens for converting incident light into near-parallel light;

a second lens comprising a horizontal array of vertical cylindrical lenses for horizontally emitting light, in which vertical stripes absorbing visible light are formed in parallel on connection portions for the vertical cylindrical lenses; and

a light diffusion film comprising a vertical array of horizontal cylindrical lenses for vertically emitting light, in which horizontal stripes absorbing visible light are formed in parallel on connection portions for the horizontal cylindrical lenses.

2. The screen according to claim 1, wherein each of the horizontal cylindrical lenses of the light diffusion film comprises a spherical entrance face and a flat exit face.

3. The screen according to claim 1, wherein each of the horizontal cylindrical lenses of the light diffusion film comprises a non-spherical entrance face and a flat exit face.

4. The screen according to claim 1, wherein the light diffusion film is made of polyethylene terephthalate (PET) or polycarbonate (PC).

5. The screen according to claim 1, wherein each of the vertical

cylindrical lenses of the second lens comprises a spherical face.

6. The screen according to claim 1, wherein each of the vertical cylindrical lenses of the second lens comprises a non-spherical face.

7. The screen according to claim 1, wherein each of the vertical cylindrical lenses of the second lens comprises a spherical entrance face comprising a first curvature and a spherical exit face comprising a second curvature, wherein the first curvature and the second curvature are different.

8. The screen according to claim 1, wherein each of the vertical cylindrical lenses of the second lens comprises a spherical entrance face comprising a first curvature and a non-spherical exit face comprising a second curvature, wherein the first curvature and the second curvature are different.

9. The screen according to claim 1, wherein each of the vertical cylindrical lenses of the second lens comprises a non-spherical entrance face comprising a first curvature and a spherical exit face comprising a second curvature, wherein the first curvature and the second curvature are different.

10. The screen according to claim 1, wherein each of the vertical cylindrical lenses of the second lens comprises a non-spherical entrance face comprising a first curvature and a non-spherical exit face comprising a second curvature, wherein the first curvature and the second curvature are different.

11. The screen according to claim 1, wherein the second lens

comprises a light-diffusing agent.

12. The screen according to claim 1, further comprising a protective filter disposed on a projection light path of the second lens to protect the screen.

13. The screen according to claim 12, wherein the protective filter is coated with an anti-reflective material.

14. The screen according to claim 12, wherein the protective filter is laminated on the light diffusion film.

15. The screen according to claim 1, wherein the light diffusion film is disposed between the first lens and the second lens.

16. The screen according to claim 1, wherein the second lens is disposed between the first lens and the light diffusion film.

17. A projection television comprising:
an illuminating optical system for generating light;
an image optical system for converting light output from the illuminating optical system into an image according to an applied image signal;
a projection optical system for projecting the image; and
a screen for displaying an image created by a light projected from the projection optical system, the screen comprising: a Fresnel lens sheet for

converting incident light into near-parallel light; a lenticular lens sheet comprising a horizontal array of vertical cylindrical lenses for horizontally emitting light, in which vertical black stripes are formed in parallel on connection portions for the vertical cylindrical lenses; and a light diffusion film comprising a vertical array of horizontal cylindrical lenses for vertically emitting light, in which horizontal black stripes are formed in parallel on connection portions for the horizontal cylindrical lenses.

18. The projection television according to claim 17, wherein each of the horizontal cylindrical lenses of the light diffusion film comprises a spherical entrance face and a flat exit face.

19. The projection television according to claim 17, wherein each of the horizontal cylindrical lenses of the light diffusion film comprises a non-spherical entrance face and a flat exit face.

20. The projection television according to claim 17, wherein the light diffusion film is made of polyethylene terephthalate (PET) or polycarbonate (PC).

21. The projection television according to claim 17, wherein each of the vertical cylindrical lenses of the lenticular lens sheet comprises a spherical face.

22. The projection television according to claim 17, wherein each

of the vertical cylindrical lenses of the lenticular lens sheet comprises a non-spherical face.

23. The projection television according to claim 17, wherein each of the vertical cylindrical lenses of the lenticular lens sheet comprises a spherical entrance face comprising a first curvature and a spherical exit face comprising a second curvature, wherein the first curvature and the second curvature are different.

24. The projection television according to claim 17, wherein each of the vertical cylindrical lenses of the lenticular lens sheet comprises a non-spherical entrance face comprising a first curvature and a spherical exit face comprising a second curvature, wherein the first curvature and the second curvature are different.

25. The projection television according to claim 17, wherein each of the vertical cylindrical lenses of the lenticular lens sheet comprises a spherical entrance face comprising a first curvature and a non-spherical exit face comprising a second curvature, wherein the first curvature is different from the second curvature.

26. The projection television according to claim 17, wherein each of the vertical cylindrical lenses of the lenticular lens sheet comprises a non-spherical entrance face comprising a first curvature and a non-spherical exit face comprising a second curvature, wherein the first curvature is different

from the second curvature.

27. The projection television according to claim 17, wherein the lenticular lens sheet comprises a light-diffusing agent.

28. The projection television according to claim 17, further comprising a protective filter disposed on a projection light path of the lenticular lens sheet to protect the screen.

29. The projection television according to claim 28, wherein the protective filter is coated with an anti-reflective material.

30. The projection television according to claim 29, wherein the protective filter is laminated on the light diffusion film.

31. The projection television according to claim 17, wherein the light diffusion film is disposed between the Fresnel lens sheet and the lenticular lens sheet.

32. The projection television according to claim 17, wherein the lenticular lens sheet is disposed between the Fresnel lens sheet and the light diffusion film.

33. The screen according to claim 1, wherein the first lens comprises a Fresnel lens sheet and the second lens comprises a lenticular lens sheet.

34. The screen according to claim 1, wherein the vertical stripes

and the horizontal stripes are black stripes.